

Form PTO 1449 (Modified)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO.  8733.214.00	60/052772 08/630,984	<div style="writing-mode: vertical-rl; transform: rotate(180deg);">         JCE979 U.S. PTO 10/052772 01/23/02       </div>
LIST OF REFERENCES CITED BY APPLICANT (Use Several Sheets if Necessary)  Date: <u>February 5, 2001</u>		APPLICANT  Willem den BOER et al.		
		FILING DATE  April 12, 1996		GROUP  2822

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
<div style="writing-mode: vertical-rl; transform: rotate(180deg);">           MT ↓ MT         </div>	AA	6,100,954	08/08/00	Kim et al.	349	138
	AB	4,636,038	01/1987	Kitahara et al.	350	339
	AC	4,943,838	07/1990	Ukai	257	410
	AD	5,072,262	12/1991	Uekita et al.	257	410
	AE	5,229,644	07/1993	Wakai et al.	257	749
	AF	<del>5,246,782</del>	<del>09/1993</del>	<del>Kennedy et al.</del>	<del>428</del>	<del>421</del>
	AG	5,294,820	03/1994	Gemma et al.	257	324
MT	AH	5,486,493	01/1996	Jeng	437	195

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
MT ↓ MT	AI	63-279228	11/1988	JAPAN		X
	AJ	63-289965	11/1988	JAPAN		X
	AK	04-068318	03/1992	JAPAN		X
	AL	04-163528	06/1992	JAPAN		X
	AM	05-203936	08/1993	JAPAN		X

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

MT	AN	M.J. Radler et al., <i>Cyclotene™ Advanced Electronics Resins for High-Aperture AMLCD Applications</i> , SID 96 APPLICATIONS DIGEST, pp. 33-36 (1996).
MT	AO	Eric P. Finchem et al., <i>A Multi-Level High Density Interconnect Process Designed &amp; Developed for Manufacturability</i> , TriQuint Semiconductor, Inc., Beaverton, OR, USA
MT	AP	M.J. Radler et al., <i>Benzocyclobutene Dielectric Resins for Flat Panel Display Applications</i> , Proceedings of the 3 <sup>rd</sup> Annual Display Manufacturing Technology Conference, pp: 123-4, 1996 (Conference date: February 6-8, 1996)

EXAMINER <u>Michael Trind</u>	DATE CONSIDERED <u>12/10/02</u>
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\*\*English-language abstract provided.

AF, AO = Already cited => duplication

Form PTO 1449 (Modified) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  LIST OF REFERENCES CITED BY APPLICANT (Use Several Sheets if Necessary)  Date: <u>January 29, 2001</u>		ATTY. DOCKET NO. <div style="display: flex; justify-content: space-between;"> <span>8733.214.00</span> <span>08/630,984 / 01052772</span> </div> APPLICANT Willem den BOER et al. <div style="text-align: right; font-size: 1.5em;">II 3</div> <div style="display: flex; justify-content: space-between;"> <div style="width: 60%;">           FILING DATE            April 12, 1996         </div> <div style="width: 40%;">           GROUP            2822         </div> </div>	
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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
MT	BA	<del>5,585,961</del>	<del>12/1996</del>	<del>Noda et al.</del>	<del>349</del>	<del>122</del>	
	BB	5,591,676	01/1997	Hughes et al.	438	702	
	BC	<del>5,644,074</del>	<del>06/1997</del>	<del>Den Boer et al.</del>	<del>257</del>	<del>59</del>	
	BD	5,675,187	10/1997	Numata et al.	257	758	
	BE	5,721,596	02/1998	Kochi	349	2	
	BF	5,721,601	02/1998	Yamaji et al.-	349	138	
	BG	5,821,621	10/1998	Jeng	257	759	
MT	BH	6,038,008	03/14/2000	Kim et al.	349	138	08/964,914 - 11/05/1997

FOREIGN PATENT DOCUMENTS					
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES      NO
MT	BI	0-536-898 A1	04/1993	EUROPEAN PATENT OFFICE (In English)	
	BJ	0-589-478 A2	03/1994	EUROPEAN PATENT OFFICE (In English)	
	BK	0-589-478 A3	03/1994	EUROPEAN PATENT OFFICE (In English)	
	BL	0-486-047 A2	05/1992	EUROPEAN PATENT OFFICE (In English)	
MT	BM	0-486-047 A3	05/1992	EUROPEAN PATENT OFFICE (In English)	

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)		
MT	BN	Stanley Wolf et al., <del>Silicon Processing For The VLSI Era, Vol. 1, Process Technology, Lattice Press, Sunset Beach, CA., 1986</del>
MT	BO	Tadanori Shimoto et al., <del>High Density Multilayer Substrate Using Benzocyclobutene Dielectric, IMC 1992 Proceedings, Yokohama, June 3-5, 1992, pp: 325-30</del>
MT	BP	Willem den BOER et al., <del>High Aperture TFT LCD using Polymer Interlevel Dielectric, OIS Optical Imaging Systems, Inc., Northville, MI, USA, no year</del>

EXAMINER: <u>Michael Train</u>	DATE CONSIDERED <u>12/10/02</u>
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BA, BC, BN, BO = already cited => duplication

\*\*English-language abstract provided.

Form PTO 1449 U.S. DEPARTMENT OF COMMERCE (Modified) PATENT AND TRADEMARK OFFICE  LIST OF REFERENCES CITED BY APPLICANT (Use Several Sheets if Necessary)  Date: <u>January 29, 2001</u>				ATTY. DOCKET NO.  8733.214.00		08/630,984 <u>10/052772</u>	
				APPLICANT  Willem den BOER et al. <span style="float: right;">#3</span>			
				FILING DATE  April 12, 1996		GROUP  2822	

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
MT	CA	4,431,272	02/1984	Yazawa et al.	350	336	
	CB	4,451,525	05/1984	Kawazoe et al.	428	213	
	CC	5,408,345	04/1995	Mitsui et al.	349	42	
	CD	5,411,629	05/1995	Warfield	216	34	
	CE	5,500,750	03/1996	Kanbe et al.	349	42	
	CF	5,600,458	02/1997	Okano et al.	349	44	
	CG	5,724,111	03/1998	Mizobata et al.	349	113	
MT	CH	5,844,647	12/1998	Maruno et al.	349	138	

FOREIGN PATENT DOCUMENTS					
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES                  NO
MT	CI	0-616-241 A2	09/1994	EUROPEAN PATENT OFFICE (In English)	
	CJ	0-714-140 A1	05/1996	EUROPEAN PATENT OFFICE (In English)	
	CK	2-311-653	10/1997	UNITED KINGDOM (In English)	
	CL	41-40-180 A1	12/1992	DENMARK	x
MT	CM	4-257826A	09/1992	JAPAN (English Abstract only)	x

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)		
MT	CN	M.W. Friends, <i>Determination of Dielectric Constant for Fuji Clear</i> , 3/7/1996, pp:1-2, including Table
MT	CO	Willem den BOER, <i>A Two-Diode Pixel Circuit and Addressing Method for MIM LCDs</i> , OIS Optical Systems, Inc., Northville, MI, USA, 4 pages, <i>Proceedings EuroDisplay 96</i> .
MT	CP	Tech Notes, <i>Advanced Electronics Resins, Processing Guide for Photo-Imageable BCB</i> , Dow Chemical Co., pp: 1-4, <span style="float: right;">no date</span>

EXAMINER <u>Michael Trinh</u>	DATE CONSIDERED <u>12/10/02</u>
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		FILING DATE  April 12, 1996	GROUP  2822

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
MT	DA	5,177,588	01/05/1993	li et al.	257	640
	DB	5,045,905	09/03/1991	Motai et al.	357	207
	DC	5,281,546	01/25/1994	Possin et al.	437	40
	DD	<del>5,003,356</del>	<del>03/26/1991</del>	<del>Wakai et al.</del>	<del>357</del>	<del>4</del>
	DE	<del>5,847,720</del>	<del>12/08/1998</del>	<del>Dunand</del>	<del>347</del>	<del>1</del>
	DF	<del>5,576,030</del>	<del>11/19/1995</del>	<del>Fujita</del>	<del>324</del>	<del>760</del>
	DD	<del>5,920,084</del>	<del>07/06/1999</del>	<del>Cu et al.</del>	<del>257</del>	<del>59</del>
MT	DH	<del>5,780,874</del>	<del>07/14/1998</del>	<del>Kudo</del>	<del>257</del>	<del>77</del>

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
MT	DI	10-133165	05/1998	JAPAN		X
	DJ					
	DK					
	DL					
	DM					

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

MT	DN	Michael Schier, <i>Reactive Ion Etching of Benzocyclobutene Using a Silicon Nitride Dielectric Etch Mask</i> , J. Electrochem. Soc., Vol. 142, No. 9, September 1995, pp: <del>3238-40</del>
MT	DO	Donald Peretrie, et al., <i>Benzocyclobutene as a Planarization Resin for Flat Panel Displays</i> , SPIE Vo., 1965, Liquid Crystal Materials, Device, and Applications (1992), pp: 331-7
	DP	

EXAMINER <u>Michael Trish</u>	DATE CONSIDERED <u>12/10/02</u>
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\*\*English-language abstract provided.

Form PTO 1449

U.S. DEPARTMENT OF  
COMMERCE  
PATENT AND TRADEMARK  
OFFICE

(Modified)

ATTY. DOCKET NO.

8733.214.00

08/630,984

10/052772

LIST OF REFERENCES CITED BY APPLICANT  
(Use Several Sheets if Necessary)

Date: January 29, 2001

APPLICANT

Willem den BOER et al.

#3

FILING DATE

April 12, 1996

GROUP

2822

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
MT	EA	<del>5,477,359</del>	<del>12/19/1995</del>	<del>Okazaki</del>	<del>359</del>	<del>77</del>	
MT	EB	<del>5,287,208</del>	<del>02/16/1994</del>	<del>Shimoto et al.</del>	<del>359</del>	<del>75</del>	
MT	EC	5,994,721	11/30/1999	Zhong et al.	257	89	
	ED						
	EE						
	EF						
	ED						
	EH						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES NO	
	EI					
	EJ					
	EK					
	EL					
	EM					

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

	EN	
	EO	
	EP	

EXAMINER

Michael Trill

DATE CONSIDERED

12/15/02

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\*\*English-language abstract provided. EA, EB: duplicated

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<b>Form PTO-1449</b>  <b>INFORMATION DISCLOSURE CITATION IN AN APPLICATION</b>  <i>(Use several sheets if necessary)</i>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"> <b>Document Number (Optional)</b>  <div style="font-family: monospace; font-size: 1.2em;">12190.460</div> </td> <td style="width: 50%;"> <b>Application Number</b>  <div style="font-family: monospace; font-size: 1.2em;">08/630,984 10/05/2772</div> </td> </tr> <tr> <td colspan="2"> <b>Applicant</b>  <div style="font-family: monospace; font-size: 1.2em;">don BOER, ET. AL.</div> </td> </tr> <tr> <td> <b>Filing Date</b>  <div style="font-family: monospace; font-size: 1.2em;">4/12/96</div> </td> <td> <b>Group Art Unit</b>  <div style="font-family: monospace; font-size: 1.2em;">2822</div> </td> </tr> </table>	<b>Document Number (Optional)</b> <div style="font-family: monospace; font-size: 1.2em;">12190.460</div>	<b>Application Number</b> <div style="font-family: monospace; font-size: 1.2em;">08/630,984 10/05/2772</div>	<b>Applicant</b> <div style="font-family: monospace; font-size: 1.2em;">don BOER, ET. AL.</div>		<b>Filing Date</b> <div style="font-family: monospace; font-size: 1.2em;">4/12/96</div>	<b>Group Art Unit</b> <div style="font-family: monospace; font-size: 1.2em;">2822</div>
<b>Document Number (Optional)</b> <div style="font-family: monospace; font-size: 1.2em;">12190.460</div>	<b>Application Number</b> <div style="font-family: monospace; font-size: 1.2em;">08/630,984 10/05/2772</div>						
<b>Applicant</b> <div style="font-family: monospace; font-size: 1.2em;">don BOER, ET. AL.</div>							
<b>Filing Date</b> <div style="font-family: monospace; font-size: 1.2em;">4/12/96</div>	<b>Group Art Unit</b> <div style="font-family: monospace; font-size: 1.2em;">2822</div>						

**U. S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
MT	5920084	7/1999	GU, ET. AL.			

**FOREIGN PATENT DOCUMENTS**

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
					YES	NO

**OTHER DOCUMENTS** *(Including Author, Title, Date, Pertinent Pages, Etc.)*


<b>EXAMINER</b> <div style="font-family: monospace; font-size: 1.2em;">Michael Trich</div>	<b>DATE CONSIDERED</b> <div style="font-family: monospace; font-size: 1.2em;">12/10/02</div>
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PTO/SB/ 08 (11-90)

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Sheet 1 of 1

PTO/SB/08 (11-90)

Sheet 1 of 1

Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

\* Duplication in 4/17 page



Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Section 2. Form PTO - 1449 (Modified)

1 OF 2

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE  
(Modified) PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(Use several sheets if necessary)

(37 CFR 1.98(b))

ATTY. DOCKET NO.

12190.460

SERIAL NO.

10/052722

APPLICANT

den BOER, ET AL

FILING DATE

GROUP

2822

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
MT	4980002	12/90	DZARNOSKI, JR, ET AL			
	5055899	10/91	WAKAI, ET AL			
	5182620	1/93	SHIMADA, ET AL			
	5414547	5/95	MATSUO, ET AL			
	5419991	5/95	SEGAWA			
	5287208	2/94	SHIMOTO, ET AL			
	5426523	6/95	SHIMADA, ET AL			
	5446562	8/95	SATO			
	5453857	9/95	TAKAHARA			
	5457553	10/95	MORI			
MT	5459596	10/95	UEDA, ET AL			

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)

MT	"A 6.4-IN-DIAGONAL COLOR TFT-LCD MODULE SUITABLE FOR PERSONAL INFORMATION TOOLS" BY TAKEDA, ET AL, SID 94 DIGEST
MT	"INVITED ADDRESS: HIGH-APERTURE TFT ARRAY STRUCTURES" BY SUZUKI, SID 94 DIGEST
MT	"A HIGH-APERTURE-RATIO TFT-LCD WITH A SHIELD-ELECTRODE STRUCTURE" BY UEDA, ET AL, SID 93 DIGEST

EXAMINER

Michael Toml

DATE CONSIDERED

12/10/02

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2 OF 2

U.S. PATENT DOCUMENTS

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

OTHER DOCUMENTS (Including Author, Title, Date\*\*, Relevant Pages, Place of Publication\*\*\*)

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(Use several sheets if necessary)

(37 CFR 1.98(b))

12190.460



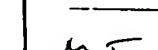
08/630,984

den BOER, ET. AL.

4/12/96

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| <br><br> |          | "OPTIMISATION OF VERY SMALL PITCH ACTIVE MATRIX LCD FOR PROJECTION" BY VIGNOLLE, ET. AL., IBEE, 1991, PP 223-226                                                |
|                                                                                                                                                                                                                                                                   |          | "A HIGH-APERTURE-RATIO 3-IN.- DIAGONAL VGA A-SI LIGHT VALVE WITH PIXEL/DATA AND PIXEL/GATE LINES OVERLAPPING" BY SAKAMOTO, ET. AL. SID 1996 DIGEST, PP 681-683. |
|                                                                                                                                                                                                                                                                   |          | "HIGH APERTURE AND FAULT-TOLERANT PIXEL STRUCTURE FOR TFT-LCDs" BY KIM, ET. AL., SID 1995 DIGEST, PP 15-18                                                      |
|                                                                                                                                                                                                                                                                   | EXAMINER | DATE CONSIDERED                                                                                                                                                 |

EXAMINER

DATE CONSIDERED

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